

VSTE22

# Tech Tools for Student Knowledge Construction

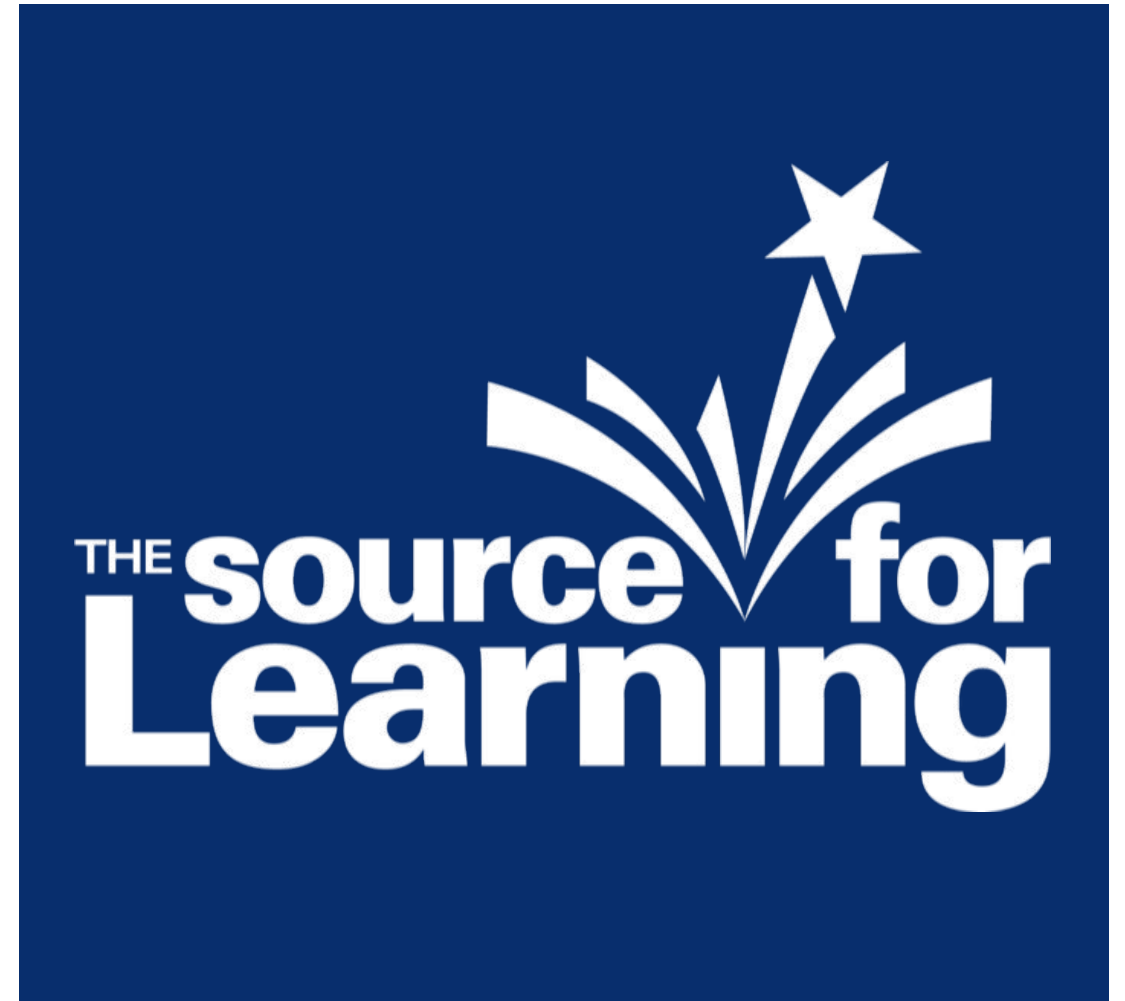
Ruth Okoye

Karen Streeter

Sunday, December 4 2022



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# Resources for Today's Session

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# Understanding Knowledge Construction





# How to Find Content (Search)



- Using keywords
- Understanding search results
- Using search filters
- Selecting types of sources
- Understanding media types



## Search Skills

# SEARCH

## DESCRIPTION

Search across disciplines for academic resources and scholarly literature such as abstracts, full-text articles, theses, books, and more. Includes access to case law.

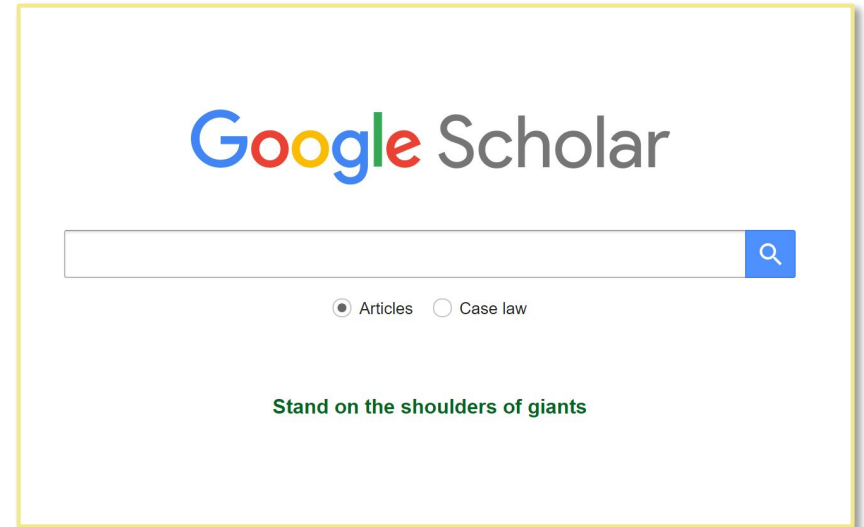
## EXAMPLES

Students looking articles on climate change and its effect on natural disasters or the American federalist perspective. Great source for debate arguments.

## ACCOUNTS

Students will need a Google Account to save links to their library. However, they can search, open links and copy citations without an account. Best for grades 8+

## Search Engine



## Google Scholar

## URLs

<http://www.teachersfirst.com/single.cfm?id=17436>

<https://scholar.google.com/>

# SEARCH

## DESCRIPTION

Access to cultural heritage items from institutions across Europe. Artwork, books, music, & videos on art, newspapers, archaeology, fashion, science, sport, etc.

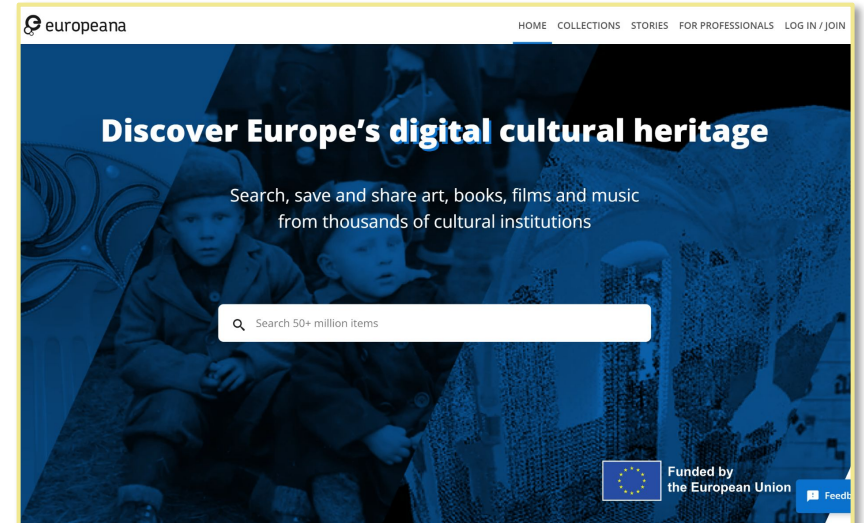
## EXAMPLES

A student may be looking for photos from European field hospitals in World War I or examples of European impressionist paintings.

## ACCOUNTS

Students don't need an account (must be 13+) to search, view artifacts online, or download. They do need one to create collections and tag favorites.

# Media Sources



**Europeana**

**URL**

<https://www.europeana.eu/en>



# SEARCH

## DESCRIPTION

Download, share, and reuse millions of the Smithsonian's images. Access to more than 4.4 million 2D and 3D digital items from our collections

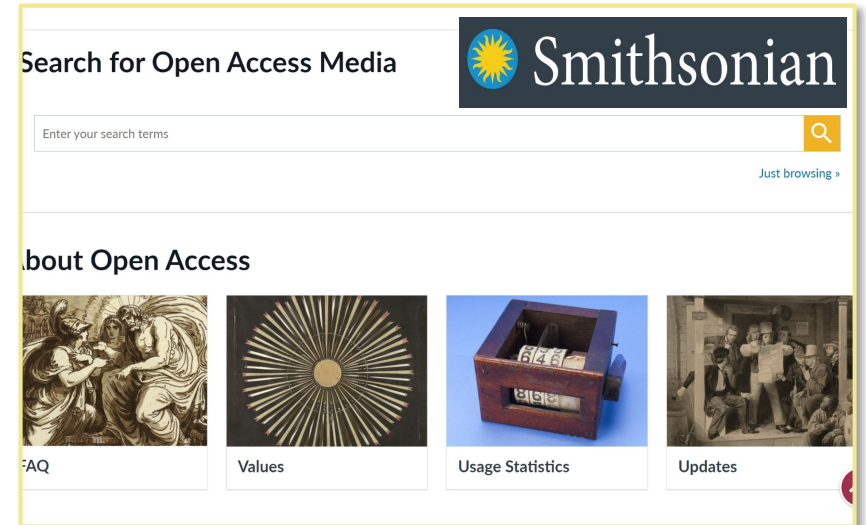
## EXAMPLES

Students might look for examples of mollusks or images of the founding fathers. Investigate the Apollo 11 Command Module, "Columbia," in 3D inside & out.

## ACCOUNTS

Students do not need an account to search the open access database.

## Media Sources



## Smithsonian Open Access

### URLs

<http://www.teachersfirst.com/single.cfm?id=19015>

<https://www.si.edu/openaccess>

# SEARCH

## DESCRIPTION

Students can search for anything on this full function search engine. As a substitute for “Google” this search engine safeguards your privacy when you search.

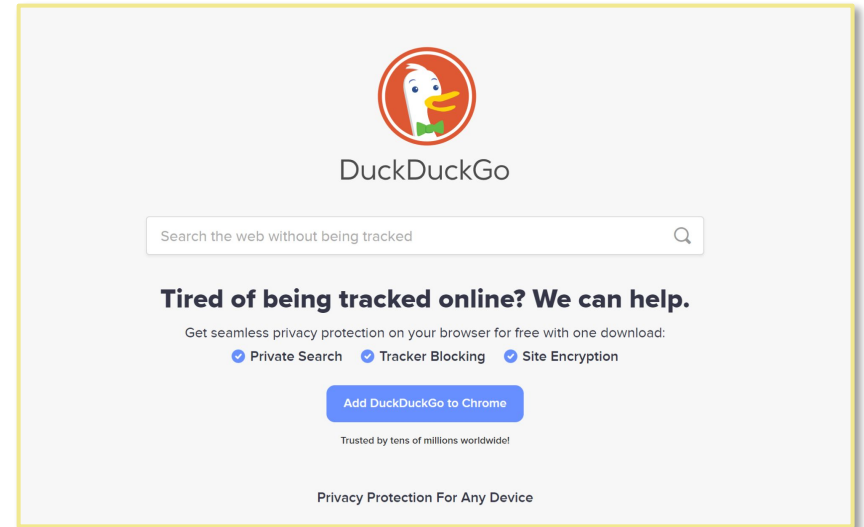
## EXAMPLES

Ask students to search for anything they are currently studying. Results returned without ads is the biggest benefit especially for younger students.

## ACCOUNTS

Students do not need an account. Great for students grades 1 - 12.

## Search Engine



**Duck Duck Go**

## URLs

<http://www.teachersfirst.com/single.cfm?id=13195>

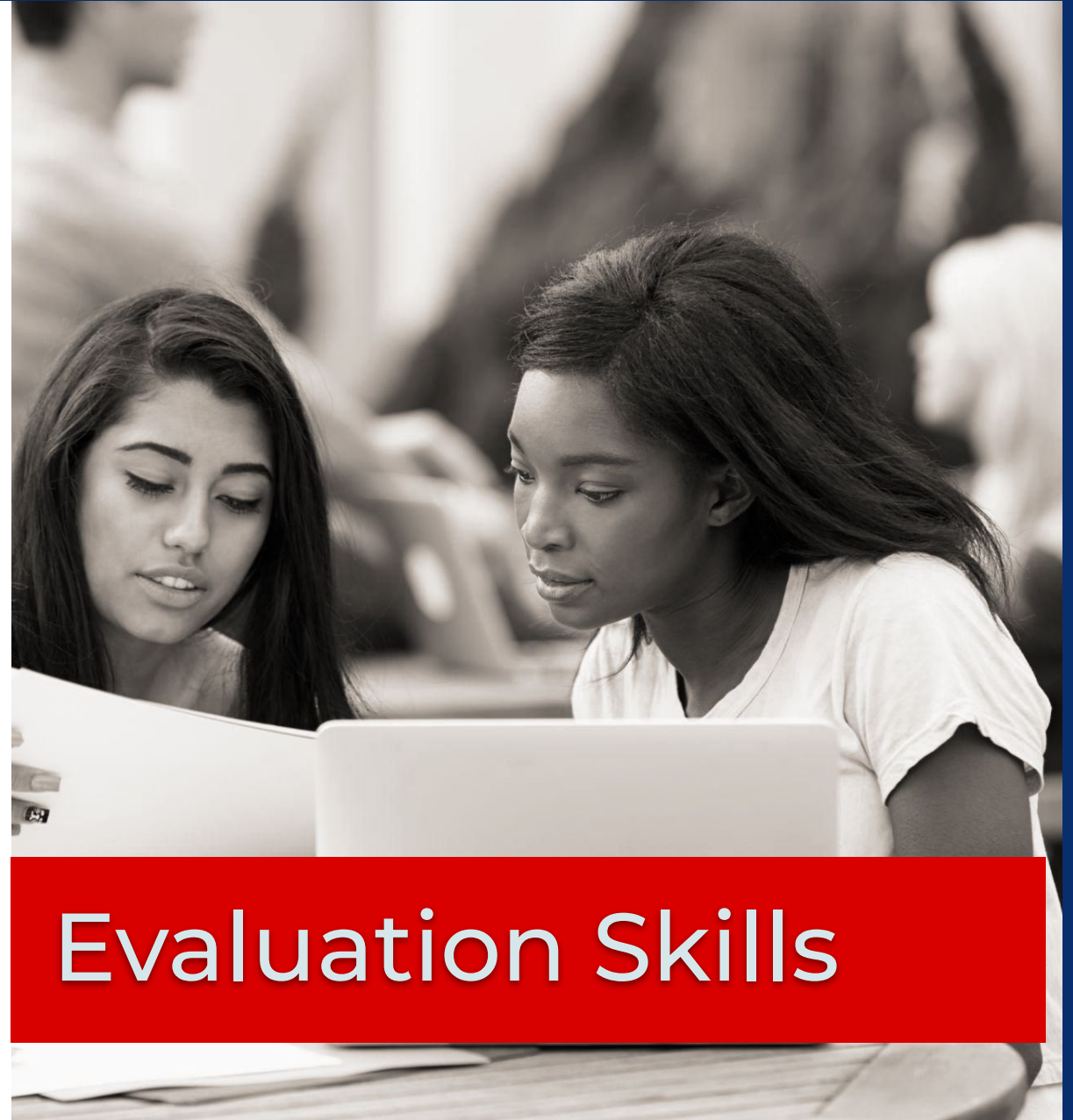
<https://duckduckgo.com/>



# Evaluating Content



- Evaluation checklist acronyms
- Media Analysis
- Understanding fact and opinion
- Recognizing bias
- Understanding types of authority



## Evaluation Skills

# EVALUATION

## DESCRIPTION

Curriculum for teaching students to search that has a few lessons on evaluating the credibility of resources found via search.

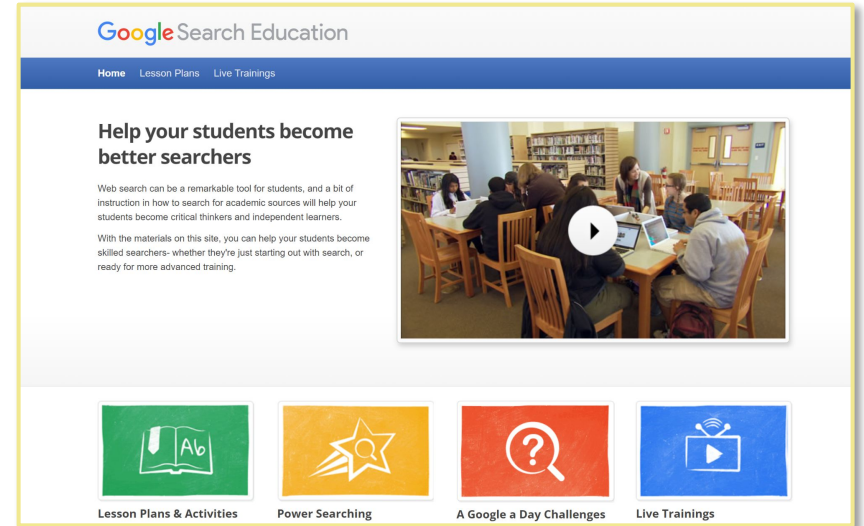
## EXAMPLES

Use the beginner lesson plan as you introduce the concepts of evaluating what you find in search results

## ACCOUNTS

Accessing the lesson plan requires a Google account.

# Lessons/Activities



Google Search Education

Home Lesson Plans Live Trainings

### Help your students become better searchers

Web search can be a remarkable tool for students, and a bit of instruction in how to search for academic sources will help your students become critical thinkers and independent learners.

With the materials on this site, you can help your students become skilled searchers- whether they're just starting out with search, or ready for more advanced training.

Lesson Plans & Activities Power Searching A Google a Day Challenges Live Trainings

## Google Search Education

## URLs

<https://www.google.com/intl/en-us/insidesearch/searcheducation/index.html>

# EVALUATION

## DESCRIPTION

The Library of Congress shares questions and a graphic organizer for classes to use as they analyze media.

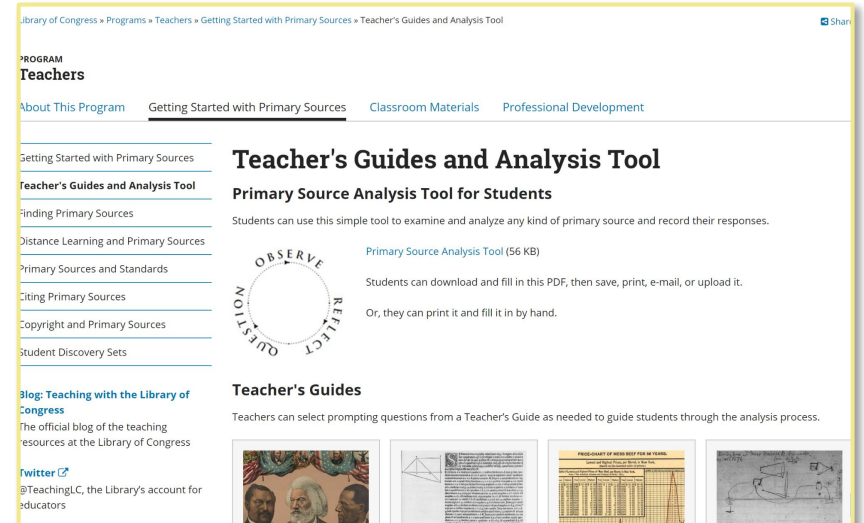
## EXAMPLES

Use the questions to guide students as they observe and reflect on a map and then use additional questions to guide discussion.

## ACCOUNTS

No account required.

# Primary Sources



The screenshot shows the 'Teacher's Guides and Analysis Tool' page on the Library of Congress website. The page is titled 'Teacher's Guides and Analysis Tool' and 'Primary Source Analysis Tool for Students'. It includes a navigation menu with links for 'About This Program', 'Getting Started with Primary Sources', 'Classroom Materials', and 'Professional Development'. The main content area features a circular graphic organizer with the words 'OBSERVE', 'REFLECT', 'QUESTIONS', and 'NOTES' around a central point. Below the graphic, there is a section for 'Teacher's Guides' and a 'Blog: Teaching with the Library of Congress' section. The page also includes a 'Twitter' link and a 'Student Discovery Sets' link.

## LOC Primary Source Analysis Tool

## URLs

<https://www.loc.gov/programs/teachers/getting-started-with-primary-sources/guides/>

# EVALUATION

## Social Platform

### DESCRIPTION

Use this social platform for to assign students a passage or other text to annotate as practice or to share observations and reflections.

### EXAMPLES

Upload a Google search page and have students make observations and draw conclusions on page content and search results.

### ACCOUNTS

Free accounts for educators to create classes and make assignments to students.

The Perusall logo is displayed in a large, stylized font. The word "Perusall" is written in a red-to-orange gradient, with a registered trademark symbol (®) to the upper right of the final 'l'. The logo is centered within a light gray rectangular box with a thin yellow border.

**Perusall**

### URLs

<http://www.teachersfirst.com/single.cfm?id=19651>

<https://www.perusall.com/>

# EVALUATION

## Browser

### DESCRIPTION

Microsoft's Edge browser runs on the same engine as Chrome but has a few built in extras.

### EXAMPLES

Use this to differentiate for student who need some support. It will read to those who have difficulty with reading and translate as well.

### ACCOUNTS

Free account encouraged to save search results but not necessary for annotation, read aloud or translated.



**Microsoft Edge**

### URLs

<https://www.microsoft.com/edge>





# Curation



- Selecting
- Organizing
- Finding and vetting sources
- Citing



**Curation Skills**

# CURATION

## DESCRIPTION

Bookmarking and organizing tool. This is a freemium tool but the free portion is robust.

## EXAMPLES

A high school science student curating research on a STEM problem they are looking to solve or a history student gathering resources for a paper.

## ACCOUNTS

Students need an account and must be 16+

## Bookmarking



**Raindrop.io**

## URLs

<http://www.teachersfirst.com/single.cfm?id=15859>

<https://raindrop.io/>

# CURATION

## DESCRIPTION

A bookmarking site that organizes saved websites into a 3x3 grid. Add items as a link to any website or create a folder linking to a new grid with sites you add.

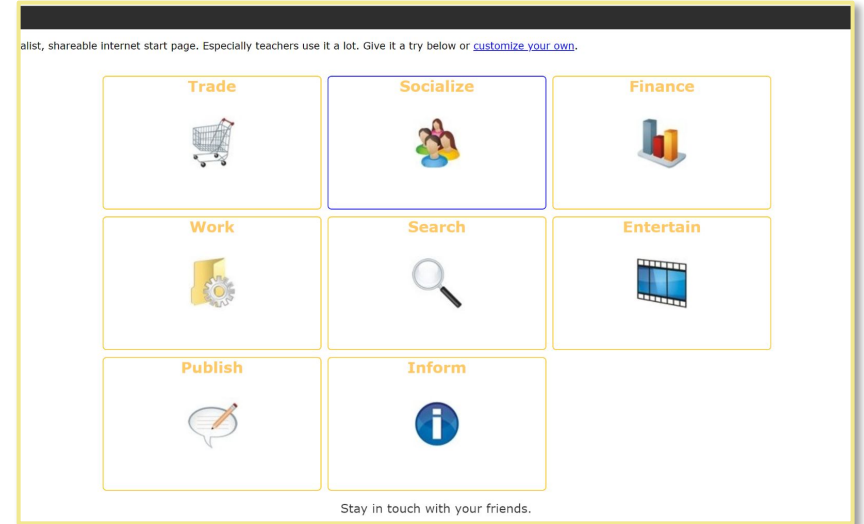
## EXAMPLES

Students reporting on a state or country create a grid to include folders linking to different topics (famous people, population information, geography, & history).

## ACCOUNTS

The site requires registration and login with email.

# Bookmarking



## 3x3 Links

## URLs

<http://www.teachersfirst.com/single.cfm?id=18107>

<http://www.3x3links.com/index.html>

# CURATION

## Instructional Tool

### DESCRIPTION

Create, curate, and share web content with Wakelet. Save online links, including articles, videos, images, notes, tweets, & more into collections.

### EXAMPLES

Students build a project plan incorporating resources collaboratively or create a digital story that includes supporting contextual resources.

### ACCOUNTS

Collaborative Wakelet collections shared by teacher require no account. Regular account creation = 13+. Wakelet Classroom integration using district login.

The logo for Wakelet, featuring the word "wakelet" in a blue, lowercase, sans-serif font. A white, curved line swooshes over the letters "a", "k", and "e".

**Wakelet**

### URLs

<http://www.teachersfirst.com/single.cfm?id=17619>

<https://learn.wakelet.com/>

# CURATION

## DESCRIPTION

Google Keep is a multimodal note-taking, organization, bookmarking and list-making tool that exists within the Google ecosystem.

## EXAMPLES

You can share notes (so they can edit text, lists, images, drawings, and audio recordings) - making it great for group projects. Arts Ss curating samples.

## ACCOUNTS

Requires a Google account.

## Organization



## Google Keep

## URLs

<http://www.teachersfirst.com/single.cfm?id=14984>

<https://keep.google.com/>



# Collection Creation



- Communication
- Organization
- Creativity
- Technology Literacy



**Collection Creation  
Skills**



# PRESENTATION

## Website/Newsletter

### DESCRIPTION

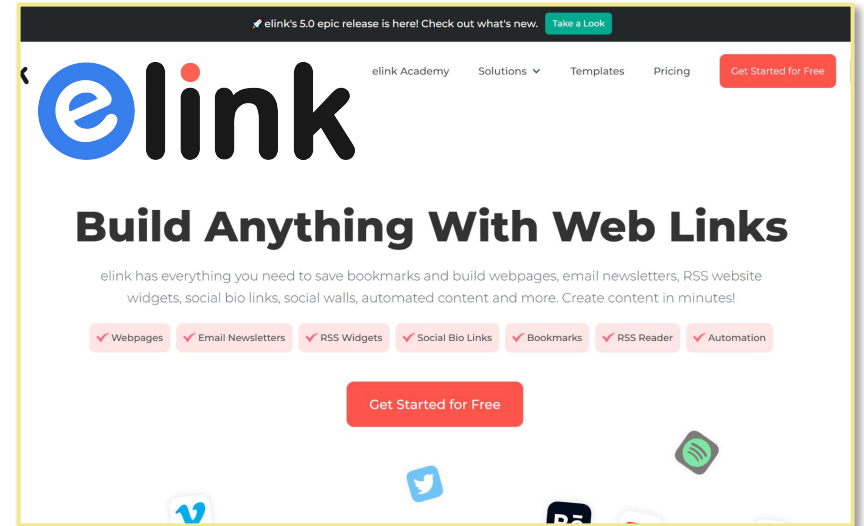
This simple tool allows you to turn curated resources into a newsletter or web page.

### EXAMPLES

Middle school students can create a webpage to showcase the research they have done to support a science project.

### ACCOUNTS

Must be 13 year or older to create an account. This is a freemium product.



**eLink**

### URLs

<http://www.teachersfirst.com/single.cfm?id=18920>

<https://elink.io/>

# PRESENTATION

## DESCRIPTION

Very simple application that builds a list of URLs and allows you to access them with a single link.

## EXAMPLES

Ask a student to create a list of sites that support their argument.

## ACCOUNTS

Accounts only necessary if you want to edit your list.

## Bookmarking



## The Urlist

### URLs

<http://www.teachersfirst.com/single.cfm?id=18653>

<https://www.theurlist.com/>

# PRESENTATION

## DESCRIPTION

This simple tool allows you to create a collection and add descriptions and additional information as necessary.

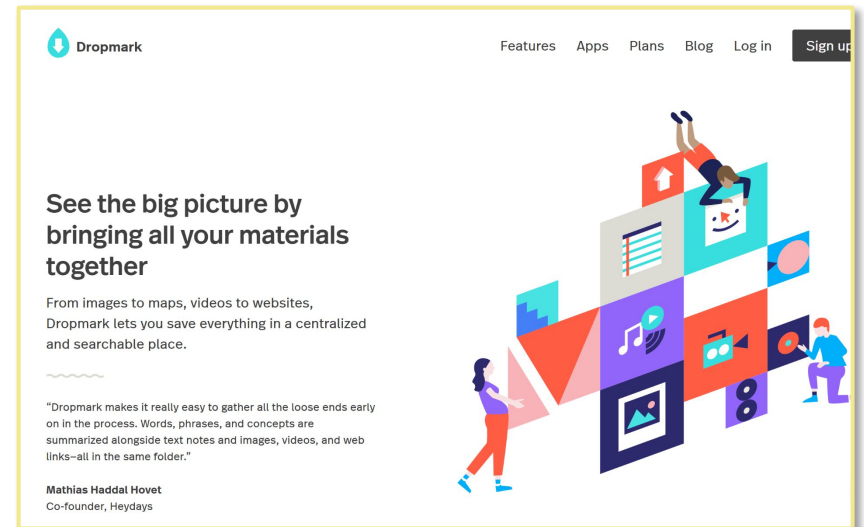
## EXAMPLES

Ask student to create a collection that demonstrates their knowledge of a concept like natural disasters.

## ACCOUNTS

Accounts for those 13 years or older.

# Organization



**Dropmark**

## URLs

<http://www.teachersfirst.com/single.cfm?id=15647>

<https://www.dropmark.com/features/>

# PRESENTATION

## DESCRIPTION

Simple annotated list maker.

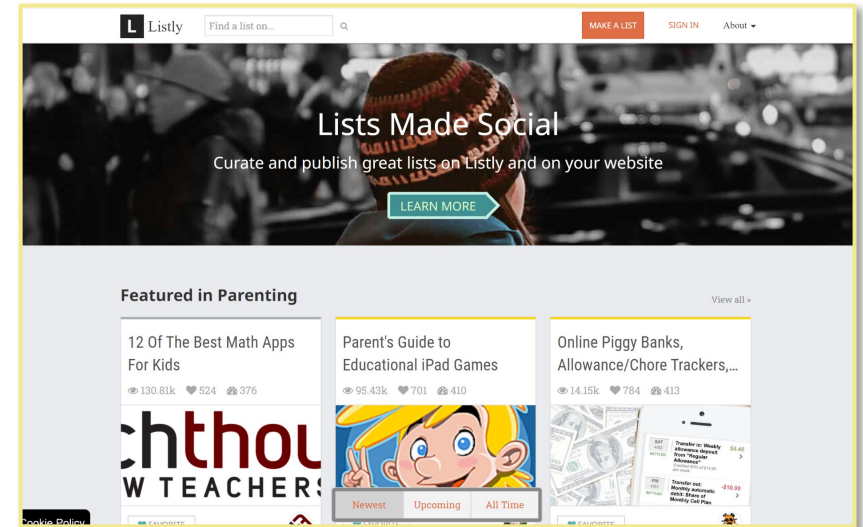
## EXAMPLES

Ask your student to make a list of sites that demonstrate what they know about a concept such as causes of world war II

## ACCOUNTS

Free accounts

# Organization



**Listly**

## URLs

<http://www.teachersfirst.com/single.cfm?id=14733>

<https://list.ly/>

Thank you for  
joining us!



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